

To: Krishnan, Radha[Ex. 4 - CBI] Schupp, Don[Ex. 4 - CBI]
Cc: Goodrich, James[Goodrich.James@epa.gov]; Weber, Josh[Weber.Josh@epa.gov]; Meiners, Greg[Ex. 4 - CBI]; Hall, John[Hall.John@epa.gov]; Szabo, Jeff[Szabo.Jeff@epa.gov]; Kling, Timothy[Ex. 4 - CBI]; Lubbers, Gary[Ex. 4 - CBI]
From: Garland, Jay
Sent: Fri 12/1/2017 4:11:43 PM
Subject: RE: WaterGen T&E Questions
Power Gen35G-USA.PDF

Some info from Watergen on the electrical connections

From: Krishnan, Radha[Ex. 4 - CBI]
Sent: Thursday, November 30, 2017 1:55 PM
To: Garland, Jay <Garland.Jay@epa.gov>; Schupp, Don <Ex. 4 - CBI>
Cc: Goodrich, James <Goodrich.James@epa.gov>; Weber, Josh <Weber.Josh@epa.gov>; Meiners, Greg [Ex. 4 - CBI]; Hall, John <Hall.John@epa.gov>; Szabo, Jeff <Szabo.Jeff@epa.gov>; Kling, Timothy <Ex. 4 - CBI>; Lubbers, Gary [Ex. 4 - CBI]
Subject: RE: WaterGen T&E Questions

Please put down Tim Kling of APTIM as the point of contact at the T&E Facility for the delivery.

From: Garland, Jay [Garland.Jay@epa.gov]
Sent: Thursday, November 30, 2017 12:21 PM
To: Schupp, Don
Cc: Goodrich, James; Weber, Josh; Krishnan, Radha; Meiners, Greg; Hall, John; Szabo, Jeff
Subject: RE: WaterGen T&E Questions

Have attached some electrical info from WaterGen. They also indicated that they are targeting Dec. 12 for a delivery date. Also asked who they should put down as the contact person for the delivery

From: Schupp, Don [Ex. 4 - CBI]
Sent: Monday, November 27, 2017 2:35 PM
To: Garland, Jay <Garland.Jay@epa.gov>
Cc: Goodrich, James <Goodrich.James@epa.gov>; Weber, Josh <Weber.Josh@epa.gov>; radha.krishnan[Ex. 4 - CBI]; Meiners, Greg [Ex. 4 - CBI]; Hall, John <Hall.John@epa.gov>; Szabo, Jeff <Szabo.Jeff@epa.gov>
Subject: RE: WaterGen T&E Questions

Jay,

Our electrician is out this week, so I don't have an answer for you, yet, on the cable length or connector type. However, we will have to find a place to locate the WaterGen for testing at T&E. This will affect the cable length, obviously. Do you have an approximate size of the unit so we can determine where it will fit?

Don



Don Schupp, P.E.

Ex. 4 - CBI

From: Garland, Jay [<mailto:Garland.Jay@epa.gov>]

Sent: Tuesday, November 21, 2017 5:00 PM

To: Schupp, Don **Ex. 4 - CBI**

Cc: Goodrich, James <Goodrich.James@epa.gov>; Weber, Josh <Weber.Josh@epa.gov>;

Krishnan, Radha **Ex. 4 - CBI** Meiners, Greg **Ex. 4 - CBI**

Subject: RE: WaterGen T&E Questions

A question from watergen.

Ex. 4 - CBI

We like to know the connector type and how long the cabal should be.

Can you provide a response?

From: Schupp, Don [Ex. 4 - CBI]
Sent: Tuesday, November 21, 2017 12:56 PM
To: Garland, Jay <Garland.Jay@epa.gov>
Cc: Goodrich, James <Goodrich.James@epa.gov>; Weber, Josh <Weber.Josh@epa.gov>;
radha.krishnan [Ex. 4 - CBI] Meiners, Greg <[Ex. 4 - CBI]>
Subject: RE: WaterGen T&E Questions

Jay,

I spoke with our electrician (Gary Lubbers). He said that we have sufficient power at the T&E Facility to power the WaterGen unit. With [Ex. 4 - CBI] we will need approximately [Ex. 4 - CBI] and we can go as high as [Ex. 4 - CBI]. We will need to see if they need either [Ex. 4 - CBI] and the specific connector that they have, but it should be doable.

Also, as we discussed, the T&E highbay is heated in the winter to approximately [Ex. 4 - CBI] but I believe that EPA Facilities controls that temperature. It is not ever cooled or humidity controlled. We have two large environmental chambers in the highbay, but they have not been actively used (temperature or humidity controlled) for about 10 years and need significant work to get in operating condition.

Please let us know if you have any questions, and we look forward to seeing the unit at T&E.

Don



Don Schupp, P.E.

Ex. 4 - CBI

From: Krishnan, Radha

Sent: Tuesday, November 21, 2017 10:51 AM

To: Meiners, Greg { **Ex. 4 - CBI** } >; Schupp, Don {

Ex. 4 - CBI

Subject: Fwd: WaterGen T&E Questions

Can either of you touch base with Jay Garland in my absence? Thanks.

Sent from my iPhone

Begin forwarded message:

From: "Goodrich, James" <Goodrich.James@epa.gov>
Date: November 21, 2017 at 10:05:51 AM EST
To: "Garland, Jay" <Garland.Jay@epa.gov>
Cc: "Weber, Josh" <Weber.Josh@epa.gov>, "radha.krishnan" <radha.krishnan@epa.gov> **Ex. 4 - CBI**
<Radha.Krishnan@epa.gov> **Ex. 4 - CBI**, "Ernst, Hiba" <Ernst.Hiba@epa.gov>
Subject: WaterGen T&E Questions

Hi Jay,

For electrical and other HVAC issues I would refer you to Radha. Gary Lubbers on his staff should be able to handle such questions. In regards to humidity control, there is the Environmental Chamber (phytoremediation projects) that might be able to conduct experiments with different humidity levels, although I'm not sure the medium size WaterGen unit would fit through the door.

Jim

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*James A. Goodrich, Ph.D.*

Sr. Science Advisor

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